

INVITATION FOR BIDS (IFB) NO. 97-085

TO

FURNISH AND DELIVER

AUDIO VISUAL EQUIPMENT

FOR THE

UNIVERSITY OF HAWAII AT HILO

HILO, HAWAII

MAY, 1997

BOARD OF REGENTS

UNIVERSITY OF HAWAII

HONOLULU, HAWAII

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IT IS THE RESPONSIBILITY OF ALL BIDDERS TO CHECK THE TABLE OF CONTENTS TO CONFIRM THAT ALL PAGES LISTED THEREIN ARE CONTAINED IN THEIR BID PACKAGE.

BIDDER'S REMINDER:

Tax Clearance Certificate or OPRM Form 128, CERTIFICATION FOR TAX CLEARANCE, (see Special Provisions).

NOTICE TO BIDDERS

BID FORMS for IFB No. 97-085, Audio Visual Equipment, University of Hawaii at Hilo, will be available from and received in the OFFICE OF PROCUREMENT, PROPERTY AND RISK MANAGEMENT, UNIVERSITY OF HAWAII, 1400 LOWER CAMPUS ROAD, ROOM 15, HONOLULU, HAWAII 96822, (an unofficial copy of the IFB is available on the Internet at <http://www.state.hi.us/bids/notice01.htm>) and must be submitted no later than 2:30 p.m., June 6, 1997, and at that time will be publicly opened.

Bids received after the time and date fixed for opening will not be considered.

Vendors located outside the Island of Oahu, Hawaii, USA, may request an official copy of the IFB by providing the vendor's name, address, contact person, telephone number, facsimile number, and an account number, billable to the receiver, for express shipment. Requests may be submitted via facsimile, (808) 956-2093. Direct all questions to Karlee Hisashima, (808) 956-8674.

Kenneth P. Mortimer
President, University of
Hawaii and Chancellor,
University of Hawaii at Manoa

Advertised: Honolulu Advertiser
Issue of: May 27, 1997

NOTICE TO BIDDERS

OPPRM FORM 115

BUSINESS CLASSIFICATION CERTIFICATION STATEMENT

(See Official Document)

BID FORM
TO
FURNISH AND DELIVER
AUDIO VISUAL EQUIPMENT

Office of Procurement, Property
and Risk Management
University of Hawaii
1400 Lower Campus Road, Room 15
Honolulu, Hawaii 96822

To Whom It May Concern:

The undersigned has carefully examined the INVITATION FOR BIDS (IFB) NO. 97-085, TO FURNISH AND DELIVER AUDIO VISUAL EQUIPMENT FOR THE UNIVERSITY OF HAWAII AT HILO, HILO, HAWAII, and offers to furnish and deliver the audio visual equipment to University of Hawaii at Hilo, Media Services, 200 W. Kawili Street, Hilo, Hawaii 96720, in strict accordance with the true intent and meaning of the Invitation for Bids (IFB) and shall complete delivery within NINETY (90) consecutive calendar days from the date designated in the Notice to Proceed, as follows:

BASIC BID

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Total Amount</u>
1.	a. E-CCD Color Video, Camera Sony DXC-930, or acceptable alternate, as per Technical Specifications Manufacturer and Model No. Offered _____	1		\$_____
	b. Video Camera Lens, Sony VCL-716BXEA Remote, or acceptable alternate, as per Technical Specifications Manufacturer and Model No. Offered _____	1		\$_____

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Total Amount</u>
1.	c. Video Camera Lens, Sony VCL-716BXEA Remote, or acceptable alternate, as per Technical Specifications Manufacturer and Model No. Offered _____	1		\$_____
	d. Camera Control Unit, Sony Model CCU-M5, or acceptable alternate, as per Technical Specifications Manufacturer and Model No. Offered _____	1		\$_____
	e. Camera Cable, Sony CCTQ-3RGB (20pin/14pin), or acceptable alternate, as per Technical Specifications. Manufacturer and Model No. Offered _____	1		\$_____
	f. Camera Power Supply, Sony Model CMA-D2 Camera Adapter for Sony DXC-903, or acceptable alternate as per Technical Specifications Manufacturer and Model No. Offered _____	1		\$_____
TOTAL FOR ITEM NO. 1				\$_____
2.	Remote Pan/Tilt Heads, Daiwa APT-3DCP2, or acceptable alternate, as per Technical Specifications Manufacturer and Model No. Offered _____	1		\$_____

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Total Amount</u>
3.	Desktop Camera Panel, AMX Model AXP-DTC, or acceptable alternate, as per Technical Specifications	1		\$_____
	Manufacturer and Model No. Offered _____			
4.	a. Control Frame, AMX Model AXCENT II Control Frame, or acceptable alternate, as per Technical Specifications	1		\$_____
	Manufacturer and Model No. Offered _____			
	b. Camera Control Interface, ANX Model AXB-CAM, or acceptable alternate, as per Technical Specifications	3	\$_____	\$_____
	Manufacturer and Model No. Offered _____			
	c. Input/Output Card, AMX Model AXB-CP18, or acceptable alternate, as per Technical Specifications	3	\$_____	\$_____
	Manufacturer and Model No. Offered _____			
TOTAL FOR ITEM NO. 4				\$_____
5.	a. 5" Video Color Monitor, Sony PVM-5041Q, or acceptable alternate, as per Technical Specifications	3	\$_____	\$_____
	Manufacturer and Model No. Offered _____			

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Total Amount</u>
5.	b. 8" Video Color Monitor, Sony PVM-8041Q, or acceptable alternate, as per Technical Specifications	2	\$_____	\$_____
	Manufacturer and Model No. Offered _____			
	c. Rackmount Kit, Sony MB-507 Rackmount Kit, of acceptable alternate as per Technical Specifications	1		\$_____
	Manufacturer and Model No. Offered _____			
TOTAL FOR ITEM NO. 5				\$_____
6.	a. 13" Video Color Monitor, Sony PVM-1351Q, or acceptable alternate, as per Technical Specifications	2	\$_____	\$_____
	Manufacturer and Model No. Offered _____			
	b. Rackmount Kit, Sony MB-502B Rackmount Kit, or acceptable alternate, as per Technical Specifications	1		\$_____
	Manufacturer and Model No. Offered _____			
TOTAL FOR ITEM NO. 6				\$_____
7.	10X Zoom Lens with Optical Stabilizer, Cannon CL10-100, or acceptable alternate, as per Technical Specifications	1		\$_____
	Manufacturer and Model No. Offered _____			

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Total Amount</u>
8.	Diversity Wireless System, Samson UHF Synth Series Wireless Microphone System, Receiver Model UR-5D Dual Receiver-74k Synthesized Channels, or acceptable alternate, as per Technical Specifications Manufacturer and Model No. Offered _____	1		\$_____
9.	Diversity Wireless System, Samson UHF Synth Series Wireless Microphone System, Transmitter Model UT-5 Belt-Pack with Sennheiser MKE-2 Microphone, or acceptable alternate, as per Technical Specifications Manufacturer and Model No. Offered _____	2	\$_____	\$_____
10.	Vertical Equipment Rack, Winsted 70" V8601, or acceptable alternate, as per Technical Specifications Manufacturer and Model No. Offered _____	1		\$_____
11.	Modular Distribution Amplifier, Sigma VDA-2106 Video Amplifier, or acceptable alternate, as per Technical Specifications Manufacturer and Model No. Offered _____	1		\$_____

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Total Amount</u>
12.	Modular Distribution Amplifier, Sigma VEQ, 2105 Video Cable Equalizer, or acceptable alternate, as per Technical Specifications Manufacturer and Model No. Offered _____	1		\$_____
13.	Modular Audio Distribution Amplifier, Sigma ADA-2100 Audio Distribution Amplifier, or acceptable alternate, as per Technical Specifications Manufacturer and Model No. Offered _____	1		\$_____
14.	Video Switcher, Krammer VS-802 8X2 Vertical Interval Vide/Audio Switcher, or acceptable alternate, as per Technical Specifications Manufacturer and Model No. Offered _____	1		\$_____
15.	50" Projection TV, Toshiba TP50F60, or acceptable alternate, as per Technical Specifications Manufacturer and Model No. Offered _____	1		\$_____
16.	Powered Audio Mixing Console, Peavey XR 1600D Audio Mixer, or acceptable alternate, as per Technical Specifications Manufacturer and Model No. Offered _____	1		\$_____

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Total Amount</u>
17.	Slide-to-Video Converter, Elmo Model TRV-35G, or acceptable alternate, as per Technical Specifications	1		\$_____
	Manufacturer and Model No. Offered _____			
18.	Camera Adapter, Sony CA-327 Camera Adapter, or acceptable alternate, as per Technical Specifications	1		\$_____
	Manufacturer and Model No. Offered _____			
19.	6-Outlet AC Power Panel, Winsted Model 98700, or acceptable alternate, as per Technical Specifications	5	\$_____	\$_____
	Manufacturer and Model No. Offered _____			
20.	Ten-Outlet AC Power Strip, Winsted Model 10710, or acceptable alternate, as per Technical Specifications	2	\$_____	\$_____
	Manufacturer and Model No. Offered _____			
21.	Stationary Shelves, Winsted Model 86088, or acceptable alternate, as per Technical Specifications	5	\$_____	\$_____
	Manufacturer and Model No. Offered _____			

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Total Amount</u>
22.	3-CCD Digital Video Cassette Camcorder, Sony DCR-VX1000m, or acceptable alternate, as per Technical Specifications	1		\$_____
	Manufacturer and Model No. Offered			

23.	SVHS Hi-Fi Editing Recorder/ Player, Panasonic AG-DS550, or acceptable alternate, as per Technical Specifications	1		\$_____
	Manufacturer and Model No. Offered			

24.	a. Mixer Frame with Power Supply, Lectrosonics AC1, or acceptable alternate, as per Technical Specification	1		\$_____
	Manufacturer and Model No. Offered			

	b. Automatic Microphone Mixer/ Preamplifier, Lectrosonic Model EP4 Module, or acceptable alternate as per Technical Specifications	4	\$_____	\$_____
	Manufacturer and Model No. Offered			

TOTAL FOR ITEM NO. 24				\$_____
25.	Dynamic Signal Processor, Lectrosonic DP1, or acceptable alternate, as per Technical Specifications	1		\$_____
	Manufacturer and Model No. Offered			

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Total Amount</u>
26.	Echo Cancellor, Getner TI7200 Teleconferencing Interface, or acceptable alternate, as per Technical Specifications Manufacturer and Model No. Offered _____	1		\$_____
27.	Boundary Mics with Remote Control, Beyer MPC 67 RC, or acceptable alternate, as per Technical Specifications Manufacturer and Model No. Offered _____	20	\$_____	\$_____
28.	Video Camera Cable, Sony CCQ-50AM Video Cables, or acceptable alternate, as per Technical Specifications Manufacturer and Model No. Offered _____	1		\$_____
29.	Camera Adapter, Sony CMA-8A, or acceptable alternate, as per Technical Specifications Manufacturer and Model No. Offered _____	1		\$_____
30.	AVID MCSpress Real Time Non-Linear System, or acceptable alternate, as per Technical Specifications Manufacturer and Model No. Offered _____	1		\$_____

All bid prices are f.o.b. destination, including all applicable taxes.

Bidders do not need to bid on all items to be considered for award;
however, bidders must bid on all subitems within an item to be
considered for award for that item.

TAX LIABILITY

Both out-of-state and Hawaii bidders are advised that the amount bid on this solicitation is subject to the general excise tax (currently 4%) imposed by Chapter 237, Hawaii Revised Statutes (HRS) and, if tangible property is being imported into the State of Hawaii for resale, the use tax (currently 1/2%) imposed by Chapter 238, HRS. (Refer to Tax Clearance in the Special Provisions and Taxes in the General Provisions.) Bidders are therefore cautioned to consider such taxes in formulating their bids since no adjustments to the prices bid shall be allowed.

BASIS FOR AWARD

The award of contract, if awarded, shall be made to the lowest responsive and responsible bidder for **EACH ITEM**.

ADDITIONAL QUANTITY

The University reserves the right to increase any item or sub-item at the time of award and/or not make award of any item and the Contractor(s) agrees to furnish and deliver the additional quantity at the unit bid prices quoted herein.

NOTE TO BIDDERS

An acceptable bid must conform in all material respects to this Invitation for Bids. Any of the following may be grounds for disqualification:

1. Taking exception to any of the specifications, terms or conditions contained in the IFB.
2. Placing conditions on the furnishing of solicited goods or services.
3. Inclusion of a quotation or order form containing additional specifications, terms or conditions.
4. Referencing external documents containing additional specifications, terms or conditions.

Bidders are advised that bids are evaluated as submitted and requests by bidders to delete conditions contained in their bids after bid opening cannot be considered.

REMITTANCE ADDRESS

In the event that the undersigned is awarded this contract and its remittance address differs from the address shown on the next page, please indicate remittance address below:

Street Address or P. O. Box

City State Zip Code

SIGNATURE PAGE
(See Official Document)

CERTIFICATION FOR TAX CLEARANCE

(See Official Document)

TECHNICAL SPECIFICATIONS

This section indicates the Technical Specifications required for the audio visual equipment required. The Technical Specifications listed herein are the minimum requirements and are mandatory for an accepted bid.

- ITEM NO. 1a:** **3-CCD Color Video Camera, Sony DXC-930,** or acceptable alternate, each with the following specifications:
- a. 3 1/2" IT Hyper HAD CCDs.
 - b. 380,000 pixels with 720 Hoz. lines of resolutions.
 - c. SN ratio of 58db.
 - d. High sensitivity of F5.6 at 2000 ls.
 - e. Genlock capability, Auto white and black balance.
 - f. Capable to operate with Camera control unit (CCU).
 - g. Include service manual.
- ITEM NO. 1b:** **Video Camera Lens, Sony VCL-712BXEA Remote Zoom Lens,** or acceptable alternate, each with the following specifications:
- a. 7.5 to 90mm zoom at F1.4.
 - b. Compatible with Sony DXC-930 camera or its equal.
- ITEM NO. 1c:** **Video Camera Lens, Sony VCL-716BXEA Remote Zoom Lens,** or acceptable alternate, each with the following specifications:
- a. 7 to 112mm zoom at F1.4.
 - b. Compatible with Sony DXC-930 or its equal.
- ITEM NO. 1d:** **Camera Control Unit, Sony Model CCU-M5,** or acceptable alternate, each with the following specifications:
- a. Must be fully compatible with Sony Model DXC-930 camera or its equal.
 - b. Built-in power supply(120vac/60hz)
 - c. Genlock, loop thru, H-phase and SC-phase controls, 3 or more gain settings.
 - d. Iris and setup controls, Prest, auto and manual white and black balance.
 - e. Built-in colorbar generator.
 - f. Include service manual.
- ITEM NO. 1e:** **Camera Cable, Sony CCTQ-3RGB (20pin/14pin),** or acceptable alternate, each with the following specification:
- a. Must be able to interface between Sony CCU-M5 camera control unit and Sony DXC-930 video camera.

- b. CCQQ-1 interconnection adaptor is included with the above.

ITEM NO. 1f: Camera Power Supply, Sony Model CMA-D2 Camera Adaptor for Sony DXC-930 or acceptable alternate, each with the following specifications:

- a. Must be compatible with Sony camera DXC-930.
- b. Include service manual.

ITEM NO. 2: Remote Pan/Tilt Heads, Daiwa APT-3DCP2, or acceptable alternate, each with the following specifications.

- a. Shall have presets and connectors.
- b. Shall be constructed of cast aluminum with cordless drive motors and bronze/steel/polycatar drives for smooth quiet camera position.
- c. Load capacity: 8.00 lb.
- d. Pan rotation: 260 deg., Tilt angle: +/- 45 deg., Torque-Tilt: 8.6 lb./inch.
- e. Total weight: 3.10 lb.
- f. Operating voltage: 12v.

ITEM NO. 3: Desktop Camera Panel, AMX Model AXP-DTC, or acceptable alternate, each with the following specifications:

- a. Joystick control up to 6 cameras, with 42 presets per camera.
- b. 3 mode button, custom programmed select additional banks of cameras, activate video switching or other applications.
- c. Controls: 20 lighted pushbuttons, 2 proportional joysticks, 3 potentiometers.

ITEM NO. 4a: Control Frame, AMX Model AXCENT II Control Frame, or acceptable alternate, each with the following specifications:

- a. Support AMX control interface cards, input/output cards.

ITEM NO. 4b: Camera Control Interface, AMX Model AXB-CAM, or acceptable alternate, each with the following specifications:

- a. Must be compatible with AMX control Frame Model AXCENT II.
- b. Pan/Tilt direct motor control from External supply, 24 VDC max, 1amp., Pan/Tilt voltage/reference control-12 to +12 VDC, 100ma. 8 potentiometers for voltage level and range. One RS-232 Port (300-48,400 baud).

- ITEM NO. 4c:** **Input/output Card, AMX Model AXP-CP18**, or acceptable alternate, each with the following specifications:
- a. Compatible with AMX control frame model AXCENT II.
 - b. 8-switch inputs, small custom panel, input interface.
- ITEM NO. 5a:** **5" Video Color Monitor, Sony PVM-5041Q**, or acceptable alternate, each with the following specifications:
- a. Blue only mode, normal scan and under-scan selection.
 - b. Composite, RGB and component video inputs, external sync input.
 - c. Resolution: 250 TV line.
 - d. Include service manual.
- ITEM NO. 5b:** **8" Video Color Monitor, Sony PVM-8041Q**, or acceptable alternate, each with the following specifications:
- a. 250 lines of resolution, composite and Y/C input, built-in speaker for audio.
 - b. Ext. sync in, Tally/Remote, blue only, bias/gain control.
 - c. Include service manual.
- ITEM NO. 5c:** **Rackmount Kit, Sony MB-507 Rackmount Kit**, or acceptable alternate, for Sony Video Monitor PVM-5041Q and PVM-8041Q.
- ITEM NO. 6a:** **13" Video Color Monitor, Sony PVM-1351Q**, or acceptable alternate, each with the following specifications:
- a. 450 horizontal resolution, color temperature switchable between 6500/9300 deg. K.
 - b. On-screen: Auto chrom/phase, white balance, color temperature, ACC on/off, Component level.
 - c. Blue only mode, tally lamp, underscan, H/V delay, 4:3/16:9 aspect ratio, composite and S-video inputs.
 - d. Include service manual.
- ITEM NO. 6b:** **Rackmount Kit, Sony MB-502B Rackmount Kit**, or acceptable alternate for Sony PVM-1351Q Monitor.
- ITEM NO. 7:** **10X Zoom Lens with Optical Stabilizer, Cannon CL10-100**, or acceptable alternate, for Canon L2 Hi-8 Camcorder.

ITEM NO. 8: **Diversity Wireless System, Samson UHF Synth Series Wireless Microphone System, Receiver Model UR-5D Dual Receiver-74 Synthesized Channels,** or acceptable alternate, each with the following specifications:

- a. 800MHz UHF Band, 74 selectable frequencies, with 11 available for simultaneous use. Wide dynamic range more than 100db. dbx noise reduction.
- b. Receiver: Type of reception: 110Kf3E FM, Signal Sensitivity: 15db micro @s/n 60db (audio @1KHz, deviation 20KHz). Internal Oscillator: Crystal controlled Pll synth, 2ndosc. XTAL, Stability: 50 ppm. Spurious Reject.: -70dBm. Bandwidth: + 150 KHz @ 60db. Total Harmonic Distortion: Less than 0.5% (400Hz, deviation @ 10KHz).
- c. Frequency selection will be done at time of ordering.

ITEM NO. 9: **Diversity Wireless System, Samson UHF Synth Series Wireless Microphone System, Transmitter Model UT-5 Belt-Pack with Sennheiser MKE-2 Microphone,** or acceptable alternate, each with the following specifications:

- a. RF TRANSMITTER: Emission type: 110 KF3E FM, Rf Output Powermax.: 50 mW, Antenna type: ½ wavelength whip, Gain (audio): less than 2.14dB, Spurious Emmissions: less than -45dB from carrier, Stability: 50 ppm, battery life: 7 hrs. (9v. alkaline).
- b. Frequency selection will be done at time of ordering.

ITEM NO. 10: **Vertical Equipment Rack, Winsted 70" V8601,** or acceptable alternate, each with the following specifications:

- a. 26" deep, dove grey with a vented top and open base. Dimensions: overall
- b. Size: 78 1/2"H by 22 9/16"W by 28"D.

ITEM NO. 11: **Modular Distribution Amplifiers, Sigma VDA-2106 Video Amplifier,** or acceptable alternate.

- a. Note: Unit will be used in existing equipment Sigma SS 2100-6.

- ITEM NO. 12: Modular Distribution Amplifiers, Sigma VEQ 2105 Video Cable Equalizer, or acceptable alternate.**
- a. Note: Unit will be used in existing equipment
Sigma SS 2100-6.
- ITEM NO. 13: Modular Audio Distribution Amplifier, Sigma ADA-2100 Audio Distribution Amplifier.**
- a. Note: Unit will be used in existing equipment
Sigma SS 2100-6.
- ITEM NO. 14: Video Switcher, Krammer VS-802 8X2 Vertical Interval Video/Audio Switcher, or acceptable alternate, EACH following specifications:**
- a. 8 Composite video inputs, 1vpp/75ohms. 8 audio inputs, 1vpp/10kohm.
b. 2 composite video output, 1vpp/75ohms, 2 on each channel.
c. 2 audio-stereo 1vpp/100ohms, 2 on each channel.
d. Bandwidth video: >than 10Mhz at -3db.
e. Bandwidth audio: 20khz at - 1db.
f. Non linearity: < 0.8%, Chroma phase error: <2deg., Luma S/N: >65db., Video Crosstalk: 65db.(syns.)
g. RS-232 control option.
- ITEM NO. 15: 50" Projection TV, Toshiba TP50F60, or acceptable alternate, each with the following specifications:**
- a. 50 inch high contrast dark tint screen.
b. Resolution 800 hoz. line, S-video and composite video input.
c. Service manual shall be included.
- ITEM NO. 16: Powered Audio Mixing Console, Peavey XR 1600D Audio Mixer, or acceptable alternate, each with the following specifications:**
- a. 16 input channels, 300 watts per channel, low-Z balanced input at 2kohm., High Z unbalanced input at 8.6kohm., 2 pre-monitor sends, 2 post effects sends, 4 band active equalization, 2 9-band graphic equalizers, pan control channel level slider.
b. Service manual shall be included.

- ITEM NO. 17:** **Slide-to-Video Converter, Elmo Model TRV-35G,** or acceptable alternate, each with the following specifications:
- a. Color CCD video pickup, 300,000 or more pixels, 370 lines horizontal resolution, genlockabe, H-phase and subcarrier phase controls. Adjustable iris and focus.
 - b. Service manual shall be included.
- ITEM NO. 18:** **Camera Adapter, Sony CA-327 Camera Adapter,** or acceptable alternate, each with the following specifications:
- a. Camera adapter for the Sony DXC-327 camera.
 - b. Applications as a standalone or studio camera system.
- ITEM NO. 19:** **6 Outlet AC Power Panel, Winsted Model 98700,** or acceptable alternate, each with the following specifications:
- a. Rack mount power panel with 15 amp.ckt. bkr. On-off switch, 12' 3-wire power cord.
- ITEM NO. 20:** **Ten outlet AC Power Strip, Winsted Model 10710,** or acceptable alternate, each with the following specifications:
- a. 68" long, with on-off switch, 15 amp.ckt. bkr.
- ITEM NO. 21:** **Stationary Shelves, Winsted Model 86088,** or acceptable alternate, each with the following specifications:
- a. For 26 inch deep, rack cabinets.
 - b. Dimension: 18-3/8"W X 20-1/4"D.
- ITEM NO. 22:** **3-CCD Digital Video Cassette Camcorder, Sony DCR-VX1000,** or acceptable alternate, each with the following specifications:
- a. Digital video recording over 500 lines horizontal resolution.
 - b. Component video recording, 12-bit 32Khz digital audio, 20X digital zoom, 10X optical zoom.
 - c. Picture stabilization, full-range auto focus, color viewfinder, interval and frame recording, time code.
 - d. DV interface for direct input and output.
 - e. 60 min. recording cassette 1/12 the VHS Tape.
 - f. Include service manual.

- ITEM NO. 23:** **SVHS Hi-Fi Editing Recorder/Player, Panasonic,** or acceptable alternate, each with the following specifications:
- a. Digital Signal Processing, built-in Digital TBC, Super VHS and amorphous video heads, 32X high speed search, jog/shuttle dial, 16:9 wide aspect compatibility.
 - b. Built-in time code generator/reader, Interface (RS422A), 4-channel audio.
 - c. Include service manual.
- ITEM NO. 24a:** **Mixer Frame with Power Supply, Lectrosonics AC1,** or acceptable alternate, each with the following specifications:
- a. Automatic, manual or remote mixing in one unit.
 - b. Rackmount frame with one power supply.
 - c. Electronically balanced inputs and outputs.
 - d. Include service manual.
- ITEM NO. 24b:** **Automatic Microphone Mixer/Preamplifier, Lectrosonic Model EP4 Module,** or acceptable alternate, each with the following specifications:
- a. Compatible with Lectrosonic Mixer frame AC1.
 - b. Phantom power, remote level, attenuation Limit, 20dB pad, Send Pre/Post, Main Pre/Post, Aux Pre/Post, Release Time, Variable Threshold Return, Variable Threshold Send.
 - c. Gain range 20dB to 65dB, Max ch. Atten: 15dB, Input impedance: 10kohm, max send output +20dB. 4 input per module.
 - d. Include service manual.
- ITEM NO. 25:** **Dynamic Signal Processor, Lectrosonic DP1,** or acceptable alternate, each with the following specifications:
- a. Automatic, dynamic, sound system level control sound level.
 - b. Controls abrupt changes in system average Sound level.
 - c. Adjustable dynamic LF "pop" suppressor.
 - d. Compatible with Lectrosonic Mixer Frame AC1.
 - e. Floating, balanced, RF filtered input and output.
 - f. Standard XLR input and output connectors.
 - g. Include service manual.

- ITEM NO. 26:** **Echo Cancellor, Gentner TI7200 Teleconferencing Interface**, or acceptable alternate, each with the following specifications:
- a. 2-wire/telephone or 4-wire/video operation.
 - b. 192 millisecond echo cancellation span.
 - c. 7 khz frequency response.
 - d. Bridge connection for multiple location conferencing.
 - e. Digital gain processing, completely full duplex operation.
 - f. 30dB cancellation or 18 dB of suppression of Acoustic echo.
 - g. Include service manual.
- ITEM NO. 27:** **Boundary Mics with Remote Control, Beyer MPC 67RC**, or acceptable alternate, each with the following specifications:
- a. On-off PTT and PTM function, RISC-uC controlled, half-cardioid polar pattern, switchable freq. response correction, high gain before feedback, MPC 67 RC remote control of switch and triggering of an external contact. Supply: 18-48v phantom voltage.
 - b. Freq. Response: 80 to 20,000 Hz., Polar Pattern Semi-cardioid, load impedance>1000 ohm.
- ITEM NO. 28:** **Video Camera Cables, Sony CCQ-50AM Video Cables**, or acceptable alternate, each with the following specification:
- a. 14pin-male/14pin-female.
- ITEM NO. 29:** **Camera Adapter, Sony CMA-8A**, or acceptable alternate, each with the following specifications:
- a. Supplies DC power to the camera.
 - b. Video output is selectable between composite or Y/C video.
 - c. Include service manual.
- ITEM NO. 30:** **AVID MCXpress Real Time Non-linear Editing System**, or acceptable alternate, each with the following specifications:
- a. Video & Effects Board and Software/ATTO SCSI accelerator card.
 - b. AutoMedia III Audio Board/component and composite video I/O.
 - c. AVR 75 (approximately 200KB/frame), AVR 3s (approximately 20KB/frame), AVR 12 (approximately 30KB/frame).

- d. 4 video Tracks/Unlimited Nesting/Composing/Real Time editing and playback.
- e. 8 audio tracks.
- f. Real Time Dissolves & Transitions/PIP/Real Time Chroma Key & Color Correction.
- g. Field Interpolated Motion Effects/Real Time Titles and Alpha Key.
- h. Single Track Audio Crossfades/2:4:2/44.1 Audio I/O/RT EQ/RT volume control/audio downsample.
- i. Quicktime SW codec/Batch Digitize/Logging/EDL Import/Export.
- j. 32 level of undo, Serial/digital I/O, Audio Video Cables, 1 year Avid SoftPak MCXpress (800# phone support and free software update).
- k. Delivery and Installation

On-site installation and configuration of MCS press system. Prior to delivery and installation, the Contractor shall contact the Technical Representative to coordinate delivery and installation. The Contractor shall deliver, uncrate, assemble, install, and test the equipment within NINETY (90) consecutive calendar days from the date designated in the Notice to Proceed. Final acceptance will be predicated upon installation and operation to the University's satisfaction.

All equipment and materials incorporated in the work under these specifications shall be new. All work to be executed shall be of the highest quality and performed by skilled mechanics in the best workmanlike manner.

l. Training Session

Contractor shall provide ONE (1)-day custom MCX press software training class. Contractor shall coordinate with the Technical Representative to arrange the date, time and place for this session.

m. Warranty

The AVID MCSpress Real Time Non-linear Editing System furnished shall be new and as specified. The Contractor shall warrant that all workmanship and materials shall be guaranteed for a period of ONE (1) year for AVID boardsets, and FIVE (5) years for AVID Hard Drives, from the date of acceptance. The Contractor shall replace and/or repair any defective workmanship and/or materials at no cost to the University during the period of warranty,

provided such defects are not due to abuse or negligence on the part of the University.

- n. AVID Desktop Audio Speakers
- o. MegaDrive E-8 w/2X9GB Avid Media Drive & Ultra SCSI cable.

All questions pertaining to the Technical Specifications shall be directed to Mr. Albert Honda, Electronic Technician, telephone (808) 974-7573.

Bidders are cautioned to review the Technical Specifications carefully and thoroughly. Objections to or requests for clarification of the specifications shall be made in writing in accordance with the General Provisions to the Office of Procurement, Property and Risk Management prior to the submittal of a bid. The submittal of a bid shall be considered as acceptance of the specifications as published.

SPECIAL PROVISIONS

1. SCOPE

The Furnishing and Delivery of Audio Visual Equipment for the University of Hawaii at Hilo, shall be in accordance with the terms and conditions of IFB No. 97-085 and the General Provisions dated February 23, 1996 included by reference. Copies of the General Provisions are available at the Office of Procurement, Property and Risk Management, University of Hawaii, 1400 Lower Campus Road, Room 15, Honolulu, Hawaii 96822 or the General Provisions may be viewed at:

<http://www.state.hi.us/bids/notice03.htm>

2. TECHNICAL REPRESENTATIVE OF THE PROCUREMENT OFFICER (TRPO)

The Technical Representative of the Procurement Officer is Mr. Albert Honda, Technician, telephone (808) 974-7573.

3. SUBMITTAL OF TECHNICAL DATA

With their bids, bidders shall submit, in duplicate, manufacturer's literature or brochures with technical data and illustrations of the audio visual equipment being offered.

Technical data must demonstrate that the audio visual equipment being offered meets or exceeds the minimum requirements of the Technical Specifications. All bids will be evaluated by the information submitted at the time of bid opening; therefore, any changes/additions to the technical data should be noted. Bidders offering item(s) as specified are not required to submit literature, brochures, etc.

4. BRAND NAME OR ACCEPTABLE ALTERNATE

The brand names and model number(s) mentioned are used in this specification as a measure of quality and performance. Any brand or manufacture of comparable or better quality and performance than that specified will be considered for acceptance by the University. However, the University reserves the right to reject and deny any substitution that it may, in its discretion, deem unacceptable, and the findings in this regard shall be accepted by the bidder as final and binding.

5. DELIVERY (Applicable to Items 1 through 29)

Prior to delivery, the Contractor shall contact the Technical Representative to coordinate delivery of the audio visual equipment.

6. MANUALS AND INSTRUCTIONS

The Contractor shall provide the University with ONE (1) set operating and repair manuals for each item furnished under this contract. The University will not make payment until the operating and repair manuals for each piece of equipment purchased have been received.

7. WARRANTY (Applicable to Items 1 through 29)

The equipment furnished shall be new and as specified. The Contractor shall warrant that all workmanship and materials of equipment furnished under this contract shall be guaranteed for a period of NINETY (90) days or the manufacturer's standard warranty, whichever is longer, from the date of acceptance. The Contractor shall replace and/or repair any defective workmanship and/or materials at no cost to the University during the period of warranty, provided such defects are not due to abuse or negligence on the part of the University.

8. PURCHASE ORDER

If the award is less than \$10,000, the University reserves the right to issue a purchase order.

9. TAX CLEARANCE FOR CONTRACTS

In accordance with Section 103-53, HRS, bidders shall submit with their bid packages, original tax clearances from the State of Hawaii Department of Taxation and the Internal Revenue Service. In the event bidders are unable to obtain a tax clearance by mail in time to include it with their bid packages, bidders may submit a completed OPPRM Form 128, CERTIFICATION FOR TAX CLEARANCE, in place of the DOTAX Form A-6, with their bid packages. However, an original tax clearance must be provided before contract award. Tax clearances obtained shall certify that all tax returns due have been filed, and all taxes, interest, and penalties levied or accrued under the provisions of Title 14 that are administered by the State of Hawaii Department of Taxation and under the Internal Revenue Code against the bidder, have been paid. This shall apply to all contracts, whether with Hawaii bidders, out-of-state bidders, or nonprofit organizations.

This shall not apply to bidders if the State of Hawaii Department of Taxation certifies that the bidder is in good standing under a plan in which delinquent taxes are being paid to the State of Hawaii Department of Taxation (and the Internal Revenue Service, if applicable) in installments.

Offers that are not accompanied by original tax clearances or OPPRM Form 128, CERTIFICATION FOR TAX CLEARANCE, may be considered as non-responsive and may be rejected.

Any questions pertaining to tax clearances may be addressed to the following:

- a. Internal Revenue Service, Compliance Division - LTC
300 Ala Moana Boulevard, #50089
Honolulu, Hawaii 96850-4922
Telephone No.: (808) 541-1160
- b. Department of Taxation
State of Hawaii
Oahu District Office
P.O. Box 259
Honolulu, Hawaii 96808-0259
Telephone No.: (808) 587-4242
Toll-Free: 1-800-222-3229

10. TAX CLEARANCE FOR FINAL PAYMENT

General Provision 7.2, entitled Tax Clearance, is hereby deleted and shall be replaced by the following:

TAX CLEARANCE FOR FINAL PAYMENT

In accordance with Section 103-53, HRS, final payment for the settlement of the contract will not be made by the University until the Contractor has submitted to the University original tax clearances from the State of Hawaii Department of Taxation and the Internal Revenue Service. Tax clearance shall certify that all tax returns due have been filed, and all taxes, interest, and penalties levied or accrued under the provisions of Title 14 that are administered by the State of Hawaii Department of Taxation and under the Internal Revenue Code against the Contractor have been paid.

Notwithstanding Sections 40-57 and 40-58, HRS, if a Contractor fails to provide the original tax clearances within SIX (6) months of the notice of final settlement or completion date of the contract, the University shall assign the final settlement payment in an amount not to exceed the tax liability to the State of Hawaii Department of Taxation or Internal Revenue Service, provided that the State of Hawaii Department of Taxation may first offset its tax debt against the sum owed to the Contractor. This shall apply to all contracts whether with Hawaii vendors, out-of-state vendors, or nonprofit organizations.

The foregoing shall not apply to the Contractor if the State of Hawaii Department of Taxation certifies that the Contractor is in good standing under a plan in which delinquent taxes are being paid to the State of Hawaii Department of Taxation (and the Internal Revenue Service, if applicable) in installments.

Any questions pertaining to tax clearances may be addressed to the following:

- a. Internal Revenue Service, Compliance Division - LTC
300 Ala Moana Boulevard, #50089
Honolulu, Hawaii 96850-4922
Telephone No.: (808) 541-1160
- b. Department of Taxation
State of Hawaii
Oahu District Office
P.O. Box 259
Honolulu, Hawaii 96808-0259
Telephone No.: (808) 587-4242
Toll-Free: 1-800-222-3229

11. PAYMENT

The Contractor shall be remunerated upon submission of a properly executed original invoice and ONE (1) copy, indicating the contract number, to University of Hawaii, Information Technology Services, Administrative Services, 2425 Campus Road, Sinclair Library 10, Honolulu, Hawaii 96822, no later than THIRTY (30) calendar days following submission of invoice or the acceptance of equipment.